BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Modified Estimate for Package No. 01 (Package Consists of 3 Works of Ward No. 09.

Job Code: 009-20-000055, 009-20-000056, 009-20-000057

Estimated Cost Rs:	***200.00 Lakhs***
Modified Cost Rs:	***185.79 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Modified Estimate for Package No. 01 (Package Consists of 3 Works of Ward No. 09.

								Estimation Cost.Rs	18579351.00
Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
1	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)	Cum							
	Culvert								
	Somanna Garden								
	Deck Slab								
	Cross Road		1.00	7.00	1.20	0.15	1.26		
	Side Wall								
	Cross Road		2.00	7.00	0.15	0.60	1.26		
	Total						**2.52**	**660.00**	**1663.00**
2	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80	Cum							
	New Drain								
	HMT 5th Block, 5th Main Road E/S		1.00	168.00	1.00	1.00	168.00		
	HMT 5th Block, 5th Main Road W/S		1.00	142.00	1.00	1.00	142.00		
	Ground Parallel Road S/S		1.00	152.00	1.00	1.00	152.00		
	Ground Parallel Road N/S		1.00	53.20	1.00	1.00	53.20		
			1.00	19.20	1.00	1.00	19.20		
	10th Main Road NTI Layout S/S		1.00	57.00	1.00	1.00	57.00		
	1st Cross upto Gyathri Conduments		1.00	45.70	1.00	1.00	45.70		
	Somanna Garden								
	Main Road		1.00	17.00	1.00	1.00	17.00		
			1.00	89.90	1.00	1.00	89.90		
			1.00	142.00	1.00	1.00	142.00		
			1.00	24.80	1.00	1.00	24.80		
			1.00	40.50	1.00	1.00	40.50		
	2nd Cross W/S		1.00	24.50	1.00	1.00	24.50		
			1.00	22.20	1.00	1.00	22.20		
			1.00	10.30	1.00	1.00	10.30		
	2nd Cross S/S		1.00	36.00	1.00	1.00	36.00		
	2nd A Cross		1.00	28.80	0.80	0.80	18.43		
	3rd Cross		1.00	69.40	1.00	1.00	69.40		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
			1.00	70.00	1.00	1.00	70.00		
	3rd Cross opp Road E/S		1.00	71.00	1.00	1.00	71.00		
	3rd Cross opp Road W/S		1.00	69.00	1.00	1.00	69.00		
			1.00	23.00	1.00	1.00	23.00		
			1.00	102.00	1.00	1.00	102.00		
	1st A Cross Sapthagiri Layout		1.00	45.60	0.80	0.80	29.18		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	38.00	1.00	1.00	38.00		
	Sumadhuras Mathrushree Residency		1.00	5.90	1.00	1.00	5.90		
			1.00	29.10	1.50	1.20	52.38		
			1.00	5.60	1.00	1.00	5.60		
	Culvert								
	HMT 5th Block								
	6th Main Road		1.00	6.60	2.00	1.20	15.84		
	5th Main Road		1.00	6.80	2.00	1.20	16.32		
	Somanna Garden								
	2nd A Cross		1.00	5.70	2.00	1.20	13.68		
	Cross Road		1.00	5.60	2.00	1.20	13.44		
	3rd Cross		1.00	7.30	2.00	1.20	17.52		
	Drain Desilting								
	NTI Layout								
	10th Main Road								
	LHS		1.00	182.00	0.45	0.45	36.86		
	RHS		1.00	182.00	0.45	0.45	36.86		
	10th Main Road								
	LHS		1.00	84.00	0.45	0.45	17.01		
	RHS		1.00	84.00	0.45	0.45	17.01		
	6th Cross Road		2.00	128.00	0.45	0.45	51.84		
	Over Burden								
			1.00	25.00	0.45	0.40	4.50		
	IHECS Layout								
	6th Main Road		2.00	62.00	0.60	0.60	44.64		
	Saidarshan Opposite Road		2.00	68.00	0.60	0.60	48.96		
	House No #54 Guru Krupa		2.00	77.00	0.60	0.60	55.44		
	NTI Layout								
	1st A Cross Road								
	RHS		1.00	205.00	0.60	0.60	73.80		
	Saptagiri Layout								
	4th Cross Road		2.00	81.90	0.60	0.60	58.97		
	5th Cross Road		2.00	75.00	0.60	0.60	54.00		
	6th A Cross Road		2.00	76.70	0.60	0.60	55.22		
	Total						**2230.10**	**300.00**	**669029.00**
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)	Sqm							
	Drain Cover Slab								
	NTI Layout								
	10th Main Road								
	LHS		1.00	182.00	0.90		163.80		
	10th Main Road								
	LHS		1.00	84.00	0.90		75.60		
	IHECS Layout								
	6th Main Road		2.00	62.00	0.90		111.60		
	Saidarshan Opposite Road		2.00	68.00	0.90		122.40		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	NTI Layout								
	1st A Cross Road								
	RHS		1.00	205.00	0.90		184.50		
	Saptagiri Layout								
	4th Cross Road		2.00	81.90	0.90		147.42		
	5th Cross Road		2.00	75.00	0.90		135.00		
	6th A Cross Road		2.00	76.70	0.90		138.06		
					Sub Total		**1078.38**		
	Consider 30% Qnty for Removing & Refixing						323.51		
	Total						**323.51**	**150.00**	**48527.00**
4	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18	Cum							
	New Drain								
	HMT 5th Block, 5th Main Road E/S		1.00	168.00	1.00	0.15	25.20		
	HMT 5th Block, 5th Main Road W/S		1.00	142.00	1.00	0.15	21.30		
	Ground Parallel Road S/S		1.00	152.00	1.00	0.15	22.80		
	Ground Parallel Road N/S		1.00	53.20	1.00	0.15	7.98		
			1.00	19.20	1.00	0.15	2.88		
	10th Main Road NTI Layout S/S		1.00	57.00	1.00	0.15	8.55		
	1st Cross upto Gyathri Conduments		1.00	45.70	1.00	0.15	6.86		
	Somanna Garden								
	Main Road		1.00	17.00	1.00	0.15	2.55		
			1.00	89.90	1.00	0.15	13.49		
			1.00	142.00	1.00	0.15	21.30		
			1.00	24.80	1.00	0.15	3.72		
			1.00	40.50	1.00	0.15	6.08		
	2nd Cross W/S		1.00	24.50	1.00	0.15	3.68		
			1.00	22.20	1.00	0.15	3.33		
			1.00	10.30	1.00	0.15	1.55		
	2nd Cross S/S		1.00	36.00	1.00	0.15	5.40		
	2nd A Cross		1.00	28.80	0.80	0.15	3.46		
	3rd Cross		1.00	65.20	1.00	0.15	9.78		
			1.00	70.00	1.00	0.15	10.50		
	3rd Cross opp Road E/S		1.00	71.00	1.00	0.15	10.65		
	3rd Cross opp Road W/S		1.00	69.00	1.00	0.15	10.35		
			1.00	23.00	1.00	0.15	3.45		
			1.00	102.00	1.00	0.15	15.30		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	1st A Cross Sapthagiri Layout		1.00	45.60	0.80	0.15	5.47		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	38.00	1.00	0.15	5.70		
	Sumadhuras Mathrushree Residency		1.00	5.90	1.00	0.15	0.89		
			1.00	29.10	1.00	0.15	4.37		
			1.00	5.60	1.00	0.15	0.84		
	Road PCC								
	Sumadhuras Mathrushree Residency		1.00	17.20	18.20	0.15	46.96		
	Culvert								
	HMT 5th Block								
	6th Main Road		1.00	6.60	1.80	0.15	1.78		
	5th Main Road		1.00	6.80	1.80	0.15	1.84		
	Somanna Garden								
	2nd A Cross		1.00	5.70	1.80	0.15	1.54		
	Cross Road		1.00	5.60	1.80	0.15	1.51		
	3rd Cross		1.00	7.30	1.80	0.15	1.97		
	Below Kerb Stones								
	HMT 5th Block, 5th Main Road E/S		1.00	168.00	0.20	0.05	1.68		
	HMT 5th Block, 5th Main Road W/S		1.00	142.00	0.20	0.05	1.42		
	Ground Parallel Road S/S		1.00	152.00	0.20	0.05	1.52		
	Ground Parallel Road N/S		1.00	53.20	0.20	0.05	0.53		
			1.00	19.20	0.20	0.05	0.19		
	10th Main Road NTI Layout S/S		1.00	57.00	0.20	0.05	0.57		
	1st Cross upto Gyathri Conduments		1.00	45.70	0.20	0.05	0.46		
	Somanna Garden								
	Main Road		1.00	17.00	0.20	0.05	0.17		
			1.00	89.90	0.20	0.05	0.90		
			1.00	142.00	0.20	0.05	1.42		
			1.00	24.80	0.20	0.05	0.25		
			1.00	40.50	0.20	0.05	0.41		
	2nd Cross W/S		1.00	24.50	0.20	0.05	0.25		
			1.00	22.20	0.20	0.05	0.22		
			1.00	10.30	0.20	0.05	0.10		
	Total						**303.07**	**5550.00**	**1682050.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
5	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)	Cum							
	New Drain								
	HMT 5th Block, 5th Main Road E/S		1.00	168.00	0.90	0.15	22.68		
	HMT 5th Block, 5th Main Road W/S		1.00	142.00	0.90	0.15	19.17		
	Ground Parallel Road S/S		1.00	152.00	0.90	0.15	20.52		
	Ground Parallel Road N/S		1.00	53.20	0.90	0.15	7.18		
			1.00	19.20	0.90	0.15	2.59		
	10th Main Road NTI Layout S/S		1.00	57.00	0.90	0.15	7.70		
	1st Cross upto Gyathri Conduments		1.00	45.70	0.90	0.15	6.17		
	Somanna Garden								
	Main Road		1.00	17.00	1.00	0.15	2.55		
			1.00	89.90	1.00	0.15	13.49		
			1.00	142.00	1.00	0.15	21.30		
			1.00	24.80	1.00	0.15	3.72		
			1.00	40.50	1.00	0.15	6.08		
	2nd Cross W/S		1.00	24.50	1.00	0.15	3.68		
			1.00	22.20	1.00	0.15	3.33		
			1.00	10.30	1.00	0.15	1.55		
	2nd Cross S/S		1.00	36.00	1.00	0.15	5.40		
	2nd A Cross		1.00	28.80	0.80	0.15	3.46		
	3rd Cross		1.00	65.00	1.00	0.15	9.75		
			1.00	70.00	1.00	0.15	10.50		
	3rd Cross opp Road E/S		1.00	71.00	1.00	0.15	10.65		
	3rd Cross opp Road W/S		1.00	69.00	1.00	0.15	10.35		
			1.00	23.00	1.00	0.15	3.45		
			1.00	102.00	1.00	0.15	15.30		
	1st A Cross Sapthagiri Layout		1.00	45.60	0.80	0.15	5.47		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	38.00	0.80	0.15	4.56		
	Sumadhuras Mathrushree Residency		1.00	5.90	0.90	0.15	0.80		
			1.00	29.10	1.20	0.15	5.24		
			1.00	5.60	0.90	0.15	0.76		
	Side Walls								
	HMT 5th Block, 5th Main Road E/S		2.00	168.00	0.15	0.75	37.80		
	HMT 5th Block, 5th Main Road W/S		2.00	142.00	0.15	0.75	31.95		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Ground Parallel Road S/S		2.00	152.00	0.15	0.75	34.20		
	Ground Parallel Road N/S		2.00	53.20	0.15	0.75	11.97		
			2.00	19.20	0.15	0.75	4.32		
	10th Main Road NTI Layout S/S		2.00	57.00	0.15	0.75	12.83		
	1st Cross upto Gyathri Conduments		2.00	45.70	0.15	0.75	10.28		
	Somanna Garden								
	Main Road		2.00	17.00	0.15	0.75	3.83		
			2.00	89.90	0.15	0.75	20.23		
			2.00	142.00	0.15	0.75	31.95		
			2.00	24.80	0.15	0.75	5.58		
			2.00	40.50	0.15	0.75	9.11		
	2nd Cross W/S		2.00	24.50	0.15	0.75	5.51		
			2.00	22.20	0.15	0.75	5.00		
			2.00	10.30	0.15	0.75	2.32		
	2nd Cross S/S		2.00	36.00	0.15	0.75	8.10		
	2nd A Cross		2.00	28.80	0.10	0.45	2.59		
	3rd Cross		2.00	65.00	0.15	0.75	14.63		
			2.00	70.00	0.15	0.75	15.75		
	3rd Cross opp Road E/S		2.00	71.00	0.15	0.75	15.98		
	3rd Cross opp Road W/S		2.00	69.00	0.15	0.75	15.53		
			2.00	23.00	0.15	0.75	5.18		
			2.00	102.00	0.15	0.75	22.95		
	1st A Cross Sapthagiri Layout		2.00	45.60	0.10	0.45	4.10		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		2.00	38.00	0.15	0.50	5.70		
	Sumadhuras Mathrushree Residency		2.00	5.90	0.15	0.75	1.33		
			2.00	29.10	0.15	0.75	6.55		
			2.00	5.60	0.15	0.75	1.26		
					Sub Total		**573.87**		
	Culvert								
	Somanna Garden								
	2nd A Cross		1.00	5.70	1.80	0.20	2.05		
	Cross Road		1.00	5.60	1.80	0.20	2.02		
	Side Walls								
	Somanna Garden								
	2nd A Cross		2.00	5.70	0.20	0.90	2.05		
	Cross Road		2.00	5.60	0.20	0.90	2.02		
					Sub Total		**8.14**		
	Total						**582.00**	**7500.00**	**4365011.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.6 of PWD SR 2018-19)	Cum							
	For Ramp								
	Culvert								
	HMT 5th Block								
	6th Main Road		2.00	6.60	1.00	0.20	2.64		
	5th Main Road		2.00	6.80	1.00	0.20	2.72		
	Somanna Garden								
	2nd A Cross		2.00	5.70	1.00	0.20	2.28		
	Cross Road		2.00	5.60	1.00	0.20	2.24		
	3rd Cross		2.00	7.30	1.00	0.20	2.92		
	Total						**12.80**	**5842.00**	**74778.00**
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2	Tonne							
	For Drain	**Cum**	**From item No 05**				**573.87**		
			Steel assumed 60Kg/Cum of Concrete				**34431.93**		
		tonne					**34.43**		
	For Culvert	**Cum**	**From item No 05**				**8.14**		
			Steel assumed 90Kg/Cum of Concrete				**732.24**		
		tonne					**0.73**		
	Total						**35.16**	**80000.00**	**2813134.00**
8	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2018-19)	Cum							
	SSM Wall								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Culvert								
	HMT Layout								
	6th Main Road		2.00	6.60	0.60	0.45	3.56		
			2.00	6.60	0.45	0.45	2.67		
	5th Main Road		2.00	6.80	0.60	0.45	3.67		
			2.00	6.80	0.45	0.45	2.75		
	Somanna Garden 3rd Cross		2.00	7.30	0.60	0.45	3.94		
			2.00	7.30	0.45	0.45	2.96		
			2.00	25.00	0.45	0.90	20.25		
			2.00	33.22	0.45	0.90	26.91		
	Total						**66.72**		
	Qty upto 125%						**15.44**	**6000.00**	**92625.00**
	Qty Above 125%						**51.28**	**5114.37**	**262276.00**
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							
	Total	**4871.76**							
	Tender Premium @ 4.98% above	242.61							
	Grand Total	**5114.37**							
9	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work, curing, including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift, transportation etc ,copmplete. (Data Rate)	Sqm							
	New Drain								
	HMT 5th Block, 5th Main Road E/S		1.00	38.40	0.90		34.56		
	HMT 5th Block, 5th Main Road W/S		1.00	16.30	0.90		14.67		
			1.00	33.80	0.90		30.42		
			1.00	10.60	0.90		9.54		
	Ground Parallel Road N/S		1.00	21.30	0.90		19.17		
			1.00	19.20	0.90		17.28		
	Ground Parallel Road S/S		1.00	152.00	0.90		136.80		
	10th Main NTI Layout to 1st Cross S/S		1.00	38.30	0.90		34.47		
	10th Main NTI Layout 1st Cross to Gayathri		1.00	29.00	0.90		26.10		
	Somanna Garden								
	Main Road		1.00	17.00	1.20		20.40		
			1.00	47.40	0.90		42.66		
			1.00	43.10	0.90		38.79		
			1.00	19.40	0.90		17.46		
			1.00	24.80	1.20		29.76		
			1.00	25.30	1.20		30.36		
	2nd Cross E/S		1.00	36.00	0.90		32.40		
	2nd Cross W/S		1.00	23.10	0.90		20.79		
	3rd Cross		1.00	50.50	0.90		45.45		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
			1.00	24.00	0.90		21.60		
	3rd Cross opp Road E/S		1.00	71.00	0.90		63.90		
	3rd Cross opp Road W/S		1.00	69.00	0.90		62.10		
			1.00	23.00	0.90		20.70		
			1.00	101.00	0.90		90.90		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	38.00	0.90		34.20		
	Sumadhuras Mathrushree Residency		1.00	5.90	0.90		5.31		
			1.00	5.60	0.90		5.04		
	Total						**904.83**	**2337.00**	**2114588.00**
10	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift, transportation etc ,complete.As per Engineer incharge of the work	Sqm							
	Culvert								
	HMT 5th Block								
	6th Main Road		1.00	6.60	1.80		11.88		
	5th Main Road		1.00	6.80	1.80		12.24		
	Somanna Garden								
	2nd A Cross		1.00	5.70	1.80		10.26		
	Cross Road		1.00	5.60	1.80		10.08		
	3rd Cross		1.00	7.30	1.80		13.14		
			1.00	29.10	1.20		34.92		
	Total						**92.52**	**5418.00**	**501273.00**
11	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800mm using M20 concrete reinforced with steel @6.00kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials,HOM, curing, lead and lift charges etc, complete as per MORTH specifications No.1500, 1700(P.No.272-I.No.37.66)	Mtrs							
	Somanna Garden								
	1st A Cross Sapthagiri Layout		1.00	45.60			45.60		
	2nd A Cross Somanna Garden		1.00	28.80			28.80		
	Total						**74.40**	1145.00	**85188.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
12	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)	Nos							
	Kerb Stone								
	HMT 5th Block, 5th Main Road E/S		1.00	168.00			168.00		
	HMT 5th Block, 5th Main Road W/S		1.00	142.00			142.00		
	Ground Parallel Road S/S		1.00	152.00			152.00		
	Ground Parallel Road N/S		1.00	53.20			53.20		
			1.00	19.20			19.20		
	10th Main Road NTI Layout S/S		1.00	57.00			57.00		
	1st Cross upto Gyathri Conduments		1.00	45.70			45.70		
	Somanna Garden								
	Main Road		1.00	17.00			17.00		
			1.00	89.90			89.90		
			1.00	142.00			142.00		
			1.00	24.80			24.80		
			1.00	40.50			40.50		
	2nd Cross W/S		1.00	24.50			24.50		
			1.00	22.20			22.20		
			1.00	10.30			10.30		
					Sub Total		**1008.30**		
	Total length						1008.30		
	No of Kerb Stones			Total Length/0.45			2241		
	Sub Total						**2241**		
	Total						**2241**	**500.00**	**1120333.00**
13	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.	Sqm							
	Kerb Stone Priming Coat								
	HMT 5th Block, 5th Main Road E/S		1.00	168.00		0.40	67.20		
	HMT 5th Block, 5th Main Road W/S		1.00	142.00		0.40	56.80		
	Ground Parallel Road S/S		1.00	152.00		0.40	60.80		
	Ground Parallel Road N/S		1.00	53.20		0.40	21.28		
			1.00	19.20		0.40	7.68		
	10th Main Road NTI Layout S/S		1.00	57.00		0.40	22.80		
	1st Cross upto Gyathri Conduments		1.00	45.70		0.40	18.28		
	Somanna Garden								
	Main Road		1.00	17.00		0.40	6.80		
			1.00	89.90		0.40	35.96		
			1.00	142.00		0.40	56.80		
			1.00	24.80		0.40	9.92		
			1.00	40.50		0.40	16.20		
	2nd Cross W/S		1.00	24.50		0.40	9.80		
			1.00	22.20		0.40	8.88		
			1.00	10.30		0.40	4.12		
	Total						**403.32**	**39.00**	**15729.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
14	KSRRB 800-1. **Painting two coats** after filling the rface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)	Sqm							
	Kerb Stone Painting								
			Qty Vide Item No. 13				403.32		
	Total						**403.32**	**84.00**	**33879.00**
15	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)	Cum							
	Road cut portion								
	NTI Layout								
	10th Main Road		1.00	26.00	2.00	0.23	11.96		
	6th Cross Road		1.00	40.00	2.00	0.23	18.40		
			1.00	128.00	0.60	0.23	17.66		
	IHECS Layout								
	6th Main Road		1.00	8.00	1.80	0.23	3.31		
	Saidarshan Opposite Road		1.00	13.00	1.00	0.23	2.99		
	House No #54 Guru Krupa		1.00	16.00	3.27	0.23	12.02		
	Cross Road		1.00	12.00	0.45	0.23	1.24		
	K Veeranna Layout								
	Cross Road		1.00	10.00	0.60	0.23	1.38		
	For CC Road								
	Sumadhuras Mathrushree Residency		1.00	26.00	20.50	0.30	159.90		
	NTI Layout								
	1st A Cross Road		1.00	61.00	1.20	0.23	16.84		
	Saptagiri Layout								
	4th Cross Road		1.00	16.00	0.60	0.23	2.21		
	6th A Cross Road		1.00	25.00	2.00	0.23	11.50		
	UGD cut portion								
	Saptagiri Layout								
	4th Cross Road		1.00	81.90	1.30	0.38	40.46		
	5th Cross Road		1.00	75.00	1.30	0.38	37.05		
	Total						**336.92**	**56.00**	**18868.00**
16	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)	Sqm							
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	64.00	5.50		352.00		
	Cross Road		1.00	75.00	4.50		337.50		
	Saptagiri Layout								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	5th Cross Road		1.00	75.00	6.70		502.50		
	Total						**1192.00**	**41.00**	**48872.00**
17	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)	Cum							
	UGD cut portion								
	Saptagiri Layout								
	4th Cross Road		1.00	81.90	1.30	0.15	15.97		
	5th Cross Road		1.00	75.00	1.30	0.15	14.63		
	Total						**30.60**	**1994.00**	**61007.00**
18	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)	Sqm							
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	64.00	5.50		352.00		
	Cross Road		1.00	75.00	4.50		337.50		
	Saptagiri Layout								
	5th Cross Road		1.00	75.00	6.70		502.50		
	Total						**1192.00**	**7.00**	**8344.00**
19	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)	Cum							
	Road cut portion								
	NTI Layout								
	10th Main Road		1.00	26.00	2.00	0.23	11.96		
	6th Cross Road		1.00	40.00	2.00	0.23	18.40		
			1.00	128.00	0.60	0.23	17.66		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	64.00	5.50	0.23	80.96		
	Cross Road		1.00	75.00	4.50	0.23	77.63		
	Road cut portion								
	IHECS Layout								
	6th Main Road		1.00	8.00	1.80	0.23	3.31		
	Saidarshan Opposite Road		1.00	13.00	1.20	0.23	3.59		
	House No #54 Guru Krupa		1.00	16.00	3.27	0.23	12.02		
	Cross Road		1.00	12.00	0.45	0.23	1.24		
	K Veeranna Layout								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Cross Road		1.00	10.00	0.60	0.23	1.38		
	NTI Layout								
	1st A Cross Road		1.00	61.00	1.20	0.23	16.84		
	Saptagiri Layout								
	4th Cross Road		1.00	16.00	0.60	0.23	2.21		
	6th A Cross Road		1.00	25.00	2.00	0.23	11.50		
	UGD cut portion								
	Saptagiri Layout								
	4th Cross Road		1.00	81.90	1.30	0.23	24.49		
	5th Cross Road		1.00	75.00	1.30	0.23	22.43		
	New Road								
	Saptagiri Layout								
	5th Cross Road		1.00	75.00	6.70	0.23	115.58		
	Total						**421.18**	**2001.00**	**842790.00**
20	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)	Sqm							
	Road cut portion								
	NTI Layout								
	10th Main Road		1.00	26.00	2.00		52.00		
	6th Cross Road		1.00	40.00	2.00		80.00		
			1.00	128.00	0.60		76.80		
	for old Road Provide 25% Profile Correction		from item no 16=(2588.40X25%)=6				647.10		
	Alkon Spirial Apartment Road		1.00	64.00	5.50		352.00		
	Cross Road		1.00	75.00	4.50		337.50		
	Road cut portion								
	IHECS Layout								
	6th Main Road		1.00	8.00	1.80		14.40		
	Saidarshan Opposite Road		1.00	13.00	1.20		15.60		
	House No #54 Guru Krupa		1.00	16.00	3.27		52.27		
	Cross Road		1.00	12.00	0.45		5.40		
	K Veeranna Layout								
	Cross Road		1.00	10.00	0.60		6.00		
	NTI Layout								
	1st A Cross Road		1.00	61.00	1.20		73.20		
	Saptagiri Layout								
	4th Cross Road		1.00	16.00	0.60		9.60		
	6th A Cross Road		1.00	25.00	2.00		50.00		
	UGD cut portion								
	Saptagiri Layout								
	4th Cross Road		1.00	81.90	1.30		106.47		
	5th Cross Road		1.00	75.00	1.30		97.50		
	New Road								
	Saptagiri Layout								
	5th Cross Road		1.00	75.00	6.70		502.50		
	Total						**2478.34**	**28.00**	**69393.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
21	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).	Sqm							
	Old Roads								
	NTI Layout								
	10th Main Road		1.00	84.00	6.20		520.80		
	6th Cross Road		1.00	128.00	6.20		793.60		
	10th Main Road		1.00	182.00	7.00		1274.00		
	Old Roads								
	IHECS Layout								
	6th Main Road		1.00	62.00	7.00		434.00		
	Saidarshan Opposite Road		1.00	68.00	8.00		544.00		
	House No #54 Guru Krupa		1.00	77.00	5.20		400.40		
	Cross Road		1.00	35.40	5.30		187.62		
	K Veeranna Layout								
	Cross Road		1.00	27.90	5.80		161.82		
	NTI Layout								
	1st A Cross Road		1.00	205.00	6.00		1230.00		
	Saptagiri Layout								
	4th Cross Road		1.00	81.90	6.00		491.40		
	6th A Cross Road		1.00	76.70	5.20		398.84		
	5th Cross Road		1.00	75.00	6.70		502.50		
	Total						**6938.98**	**5.00**	**34695.00**
22	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)	Sqm							
			From Item no. 21				6938.98		
	Total						**6938.98**	**12.00**	**83268.00**
23	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)	Cum							
	old Road								
	for old Road Provide 25% Profile Correction		from item no16=(2588.40X25%)=647.10						
				647.10		0.05	32.36		
	Road cut portion								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	NTI Layout								
	10th Main Road		1.00	26.00	2.00	0.05	2.60		
	6th Cross Road		1.00	40.00	2.00	0.05	4.00		
			1.00	128.00	0.60	0.05	3.84		
	old Road								
	for old Road Provide 20% Profile Correction		from item no14= (4350.58X20%)=870.12						
				870.12		0.05	43.51		
	Road cut portion								
	IHECS Layout								
	6th Main Road		1.00	8.00	1.80	0.05	0.72		
	Saidarshan Opposite Road		1.00	13.00	1.00	0.05	0.65		
	House No #54 Guru Krupa		1.00	16.00	3.27	0.05	2.61		
	Cross Road		1.00	12.00	0.45	0.05	0.27		
	K Veeranna Layout								
	Cross Road		1.00	10.00	0.60	0.05	0.30		
	NTI Layout								
	1st A Cross Road		1.00	61.00	1.20	0.05	3.66		
	Saptagiri Layout								
	4th Cross Road		1.00	16.00	0.60	0.05	0.48		
	6th A Cross Road		1.00	25.00	2.00	0.05	2.50		
	For full road Length								
	IHECS Layout								
	6th Main Road		1.00	62.00	0.40	0.05	1.24		
	Saidarshan Opposite Road		2.00	68.00	0.40	0.05	2.72		
	House No #54 Guru Krupa		1.00	77.00	0.40	0.05	1.54		
	Total						**102.99**	**6597.00**	**679454.00**
24	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive).(P.No-171I No-21.78.12)	Cum							
	NTI Layout								
	10th Main Road		1.00	84.00	6.20	0.04	20.83		
	6th Cross Road		1.00	128.00	6.20	0.04	31.74		
	10th Main Road		1.00	182.00	7.00	0.04	50.96		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		1.00	64.00	5.50	0.04	14.08		
	Cross Road		1.00	75.00	4.50	0.04	13.50		
	IHECS Layout								
	6th Main Road		1.00	62.00	7.00	0.04	17.36		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Saidarshan Opposite Road		1.00	68.00	8.00	0.04	21.76		
	House No #54 Guru Krupa		1.00	77.00	5.20	0.04	16.02		
	Cross Road		1.00	35.40	5.30	0.04	7.50		
	K Veeranna Layout								
	Cross Road		1.00	27.90	5.80	0.04	6.47		
	NTI Layout								
	1st A Cross Road		1.00	205.00	6.00	0.04	49.20		
	Saptagiri Layout								
	4th Cross Road		1.00	81.90	6.00	0.04	19.66		
	6th A Cross Road		1.00	76.70	5.20	0.04	15.95		
	5th Cross Road		1.00	75.00	6.70	0.04	20.10		
	Total						**305.14**	**8155.00**	**2488410.00**
25	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)	Sqm							
	NTI Layout								
	10th Main Road		2.00	84.00	0.10		16.80		
	6th Cross Road		2.00	128.00	0.10		25.60		
	10th Main Road		2.00	182.00	0.10		36.40		
	K Veeranna Layout								
	Alkon Spirial Apartment Road		2.00	64.00	0.10		12.80		
	Cross Road		2.00	75.00	0.10		15.00		
	IHECS Layout								
	6th Main Road		2.00	62.00	0.10		12.40		
	Saidarshan Opposite Road		2.00	68.00	0.10		13.60		
	House No #54 Guru Krupa		2.00	77.00	0.10		15.40		
	Cross Road		2.00	35.40	0.10		7.08		
	K Veeranna Layout								
	Cross Road		2.00	27.90	0.10		5.58		
	NTI Layout								
	1st A Cross Road		2.00	205.00	0.10		41.00		
	Saptagiri Layout								
	4th Cross Road		2.00	81.90	0.10		16.38		
	6th A Cross Road		2.00	76.70	0.10		15.34		
	5th Cross Road		2.00	75.00	0.10		15.00		
	Total						**248.38**	**454.00**	**112765.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
26	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Sumadhuras Mathrushree Residency		1.00	17.20	18.20	0.15	46.96		
	Total						**46.96**	**5354.00**	**251402.00**
								Grand Total	**18579351.00**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019 +/- Tender Premium.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction
Accorded For Rs.1879351.00
Head of A/C P.3798
CER NO : 94 Dt. 25.03.2021

TA CE (YNK)

152 - BYATARAYANAPURA AC
WARD NAME : 9 - VIDYARANYAPURA